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pozzani®
Water Treatment Products

# AQUADA UV STERILIZING SYSTEM

## Overview

Aquada UV systems kill bacteria and viruses making the water suitable for drinking. Pre-filtration is essential for UV systems to work reliably. The degree of pre-filtration will depend on the feed water quality, the minimum requirement for pre-filtration is a 5 micron sediment filter.

Aquada UV Systems are available in 5 sizes covering a flow range up to 10m$^3$/hr, all 5 systems are available with 3 choices of monitoring and control, these options are called *Altima*, *Proxima* and *Maxima*.

## Applications

Aquada UV systems are ideal for treating whole house applications for private water supplies with bacteria problems. They also have a wide application in commerce and industry where a sterile water supply needs to be assured.

Max. operating pressure is 10 bar (150 psi)
Max. ambient temperature is 40ºC
Max. water temperature is 25ºC

## How does UV work?

The UV light applied in the water in a very controlled manner produces a photo chemical reaction in the DNA (Deoxyribonucleic Acid) which either destroys the Microorganisms or their ability to increase.

## Advantages of Aquada UV Systems

- No chemicals added to the water
- Low running costs
- Simple maintenance
- Permanent visual status indication
- Monitoring and control systems on *Proxima* and *Maxima* models

## Why buy an Aquada UV System?

- Advanced design from the worlds largest UV Systems manufacturer
- Precision engineered stainless steel reactor
- Choice of monitor and control system
- Worldwide spares support
- Safe, economical and environmentally friendly

The Aquada models are available in 5 different sizes with a choice of 3 monitoring and control systems, ALTIMA, PROXIMA and MAXIMA . See specifications above.


## AQUADA models

| | ALTIMA | PROXIMA | MAXIMA |
|---|---|---|---|
| Tested and proven disinfection capacity | ◆ | ◆ | ◆ |
| Electro-polished stainless steel disinfection chamber | ◆ | ◆ | ◆ |
| High ouput low pressure UV lamp | ◆ | ◆ | ◆ |
| High efficient electronic ballast power supply | ◆ | ◆ | ◆ |
| Glow-cap lamp operation indicator | ◆ | ◆ | ◆ |
| Safety lamp connector (no lamp removal without lamp shut-off) | ◆ | ◆ | ◆ |
| Micro-computer control | | ◆ | ◆ |
| Audible alarm plus visual alarm display (lamp failure and end of lamp life) | | ◆ | ◆ |
| Lamp change reminder with 365 days counter | | ◆ | ◆ |
| Alarm and computer reset button | | ◆ | ◆ |
| Selective UV monitoring system | | | ◆ |
| Digital UV intensity display: low-medium-high (with separate UV intensity alarm) | | | ◆ |
| Power connection for optional automatic solenoid safety shut-off valve | | | ◆ |

| Model | Power (Watts) | Length (mm) | Reactor Diameter (mm) | Weight (Kg) | Connections (R=BSP) | Min. free space above reactor (mm) | Max. flow rate $m^3/h$ Intensity = 400 $mJ/cm^2$ ① | Max. flow rate $m^3/h$ Intensity = 300 $mJ/cm^2$ ② | Max. flow rate ltrs/min Intensity = 300 $mJ/cm^2$ ② |
|---|---|---|---|---|---|---|---|---|---|
| **1** | 35 | 470 | 70.0 | 5.0 | R 1/2 | 370 | 0.69 | 0.92 | 15 |
| **2** | 55 | 670 | 70.0 | 6.0 | R 3/4 | 570 | 1.69 | 2.25 | 37 |
| **4** | 55 | 670 | 101.6 | 7.0 | R 3/4 | 570 | 2.90 | 3.87 | 64 |
| **7** | 85 | 1030 | 101.6 | 9.5 | R 1 | 920 | 5.50 | 7.33 | 122 |
| **10** | 85 | 1030 | 140.0 | 12.0 | R 1 1/2 | 920 | 8.23 | 10.97 | 182 |

① German Standard ② UK Protocol

NB. To use the Maxima system effectively the water must be of a reasonably consistent quality (clarity), where this product is used for applications like rainwater harvesting where the water quality and clarity can vary, then the Proxima system may be more pratical.

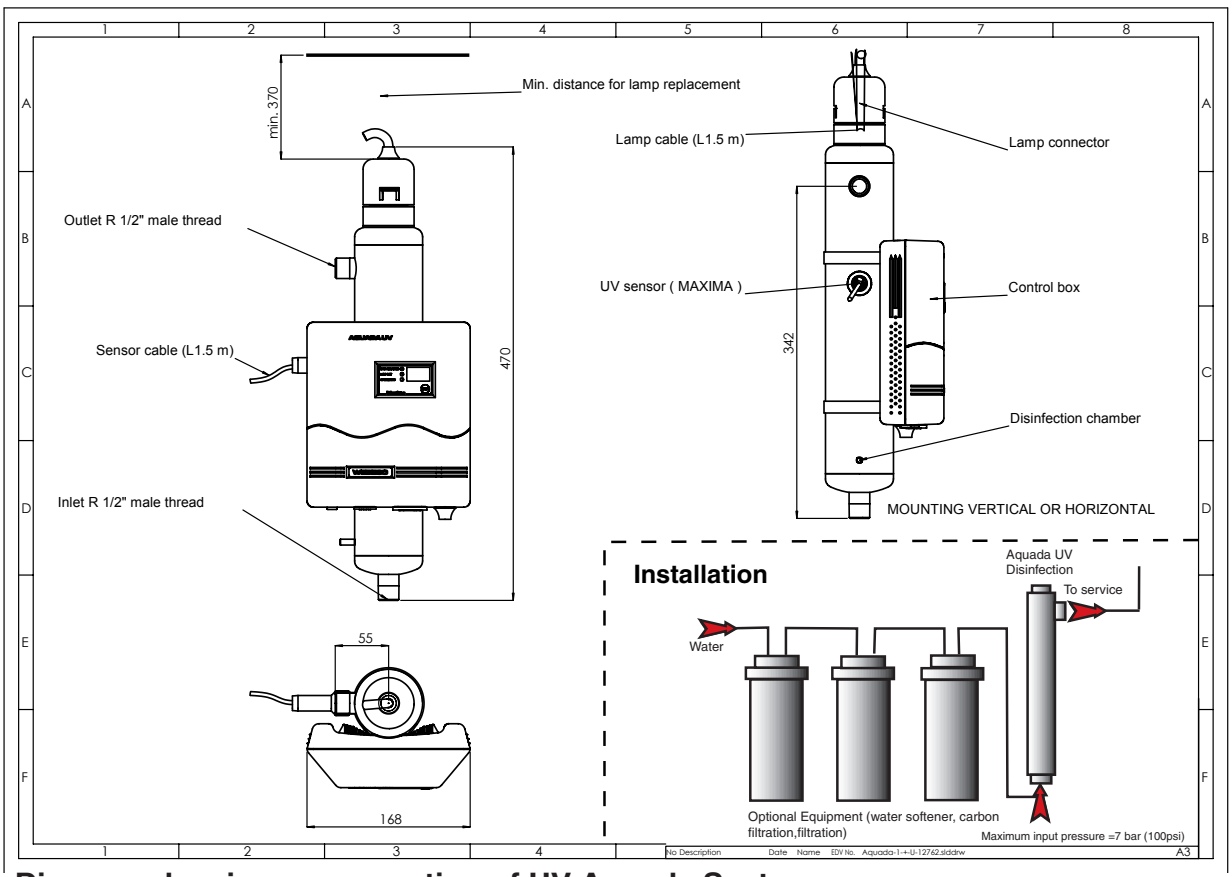


**Diagram showing cross section of UV Aquada System**



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